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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/014,509	12/14/2001	. Masayoshi Suzuki	382684/00	3599
21254	7590 03/13/2006		EXAMINER	
	TTELLECTUAL PROPERTY LAW GROUP, PLLC		ERDEM, FAZLI	
SUITE 200	OURTHOUSE ROAD		ART UNIT	PAPER NUMBER
VIENNA, V	22182-3817		2826	
	·.	•	DATE MAILED: 03/13/200	6

Please find below and/or attached an Office communication concerning this application or proceeding.

			l.				
,	Application No.	Applicant(s)					
	10/014,509	SUZUKI ET AL.					
Office Action Summary	Examiner	Art Unit					
	Fazli Erdem	2826					
The MAILING DATE of this communication a Period for Reply	ppears on the cover sheet w	ith the correspondence address					
A SHORTENED STATUTORY PERIOD FOR REF WHICHEVER IS LONGER, FROM THE MAILING  - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory perioder in the period for reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the mail earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNI 1.136(a). In no event, however, may a and will apply and will expire SIX (6) MON tute, cause the application to become Al	CATION. reply be timely filed NTHS from the mailing date of this communicat BANDONED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on 20	December 2005.						
· <u> </u>	nis action is non-final.						
3) Since this application is in condition for allow			is				
closed in accordance with the practice under	r Ex parte Quayle, 1935 C.E	). 11, 453 O.G. 213.					
Disposition of Claims							
4) Claim(s) 4,7,8,11-13,15,18 and 21-25 is/are	pending in the application.						
4a) Of the above claim(s) is/are withdo	rawn from consideration.	•					
5)⊠ Claim(s) <u>7,8,11-13,24 and 25</u> is/are allowed.							
6)⊠ Claim(s) <u>4,15,18 and 21-23</u> is/are rejected.							
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and	or election requirement.						
Application Papers							
9) The specification is objected to by the Examin	ner.						
10) The drawing(s) filed on is/are: a) a	ccepted or b) objected to	by the Examiner.					
Applicant may not request that any objection to th	e drawing(s) be held in abeyar	nce. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the corre	ection is required if the drawing	(s) is objected to. See 37 CFR 1.121	(d).				
11)☐ The oath or declaration is objected to by the	Examiner. Note the attached	d Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreiç a)⊠ All b)□ Some * c)□ None of:	gn priority under 35 U.S.C. {	§ 119(a)-(d) or (f).					
1. Certified copies of the priority docume	nts have been received.						
2. Certified copies of the priority documents have been received in Application No							
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bure	application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list	st of the certified copies not	received.					
Attachment(s)							
Notice of References Cited (PTO-892)  Notice of Draftsperson's Patent Drawing Review (PTO-948)		Summary (PTO-413) s)/Mail Date					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/0-Paper No(s)/Mail Date		nformal Patent Application (PTO-152)					

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## DETAILED ACTION

### Allowable Subject Matter

1. Claims 7, 8, 11-13, 24 and 25 allowed.

### Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 4, 15, 18 and 21-23 rejected under 35 U.S.C. 103(a) as being unpatentable over Fukumoto et al. (6,583,837) in view of Yamada et al. (6,344,883) further in view of Hsieh (6,466,295).

Regarding Claims 4, 15, 18 and 21-23, Fukumoto et al. disclose a liquid crystal display device including pixel electrodes with slits and protrusions between common electrode and alignment film where in Fig. 1B, it is disclose upper and lower substrates with protrusions 27 corresponding to the central portions of the pixel electrodes 13 and liquid crystal material disposed between the substrates. Fukumoto et al. fail to disclose the required spacer/alignment relationship and the required spacer/protrusion relationship. However, Yamada et al. disclose a liquid crystal display device and method of producing the same where in Fig 12A, rod shaped spacers are labeled as 65 and substrate is labeled as 62. Yamada et al. further discloses a Fig. 29 where alignment layer 68 extends between spacer 65 and substrate 60. Furthermore, Hsieh discloses a

method of forming spacer for liquid crystal display devices where in Fig. 2C element 25 is spacer/protrusion and in Fig. 3D element 35 is spacer/protrusion.

It would have been obvious to one of having ordinary skill in the art at the time the invention was made to include the required spacer/alignment relationship and the required protrusion/spacer configuration in Fukumoto et al. as taught by Yamada et al. and Hsie, respectively, in order to have a liquid crystal display device with increased performance.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Fazli Erdem whose telephone number is (571) 272-1914. The examiner can normally be reached on M - F 8:00 - 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nathan Flynn can be reached on (571) 272-1915. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

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system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free)

FE March 5, 2006